

#### **National Geospatial Advisory** Committee (NGAC)

Joint Stakeholder Engagement / Public-Private Partnership Subcommittee

**13 October 2021** 



Mark Reichardt Chair, P3 SC

Cy Smith Chair, Stakeholder **Engagement SC** 

#### Agenda

- Introduction / Background
- GDA Workshops Initial thoughts on Implications
- National Collaborative Governance Insights
- Areas of Focus Insights
- Potential Next Steps for NGAC P3 / Stakeholder SCs



#### Stakeholder Engagement Subcommittee

#### Stakeholder Engagement Subcommittee Charge

Explore options, make recommendations on how FGDC might significantly expand stakeholder engagement at all levels to further advance the NSDI...

- Identify/examine successful stakeholder partnerships in support of SDI
- Create a stakeholder registry and map showing where/when to engage stakeholder groups
- Develop talking points, slides and other communication tools to articulate NSDI value proposition
- Design stakeholder engagement model to develop/improve engagement and partnerships



#### NGAC Public-Private Partnership (P3) Subcommittee

#### Task

- Examine case studies of successful partnerships
- Discuss factors that make P3s successful and lessons learned that can help shape more productive partnerships
- Identify potential priority areas for application of partnerships for advancement of the NSDI
- Make recommendations to establish and sustain such arrangements in support of the NSDI

#### **Recommendations: (Dec 2020)**

 Encourage public and private sector entities to leverage findings and recommendations to form P3s and other innovative partnerships to advance the NSDI



Request FGDC work with geospatial associations and State,
 Tribal, local leaders to identify NSDI priority areas for P3s



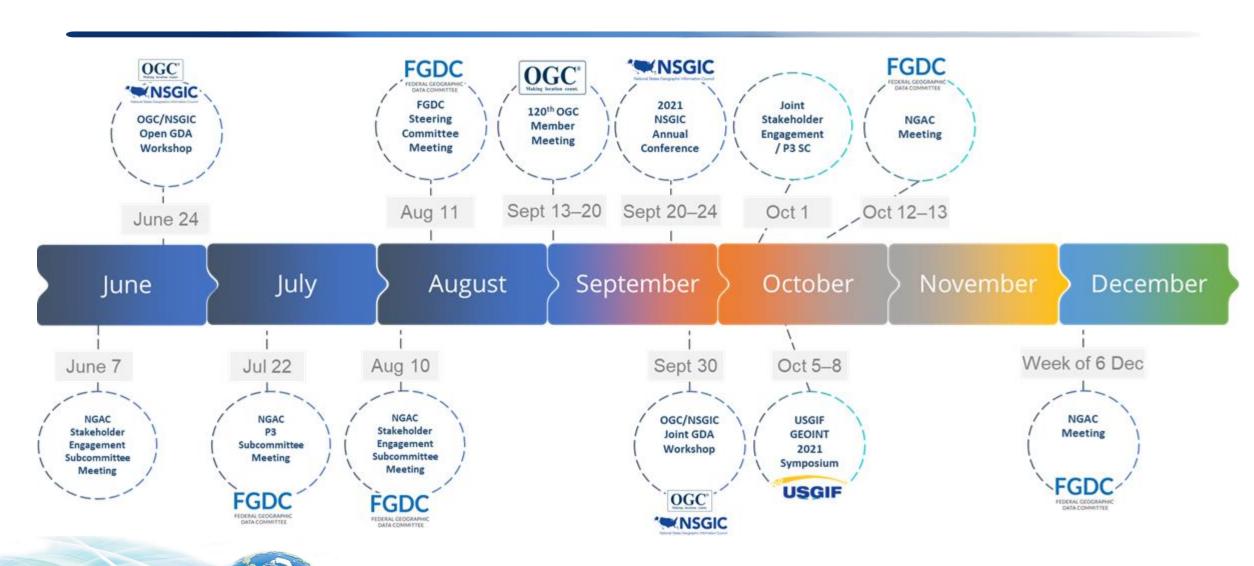
- NGAC and FGDC work to **implement a strategy to create a national collaborative governance process** to guide a more efficient investigation, prioritization, and implementation of P3s and other innovative partnerships to advance the NSDI.
- NGAC and the FGDC work with stakeholder organizations to develop and deliver P3 education/communication programs to ensure agreement on P3 approaches, share best practices etc.
- NGAC and the FGDC continue to monitor and document new case studies to provide greater insight into elements of successful partnerships and issues to avoid, while helping to inspire public and private sector organizations to pursue such partnerships



#### Subcommittee Membership

Public-Private Partnerships Subcommittee	Stakeholder Engagement Subcommittee
Mark Reichardt (Chair) Sanjay Kumar Mike Hussey Mark Meade Siva Ravada Felicia Retiz Cy Smith Gary Thompson	Cy Smith (Chair) Doug Adams Frank Avila Sarah Battersby Byron Bluehorse Gar Clarke Garet Couch Jack Dangermond Bill Haneberg Bobbi Lenczowski Amber Shultz
	Alliber Sharz







#### **OBJECTIVES**



KEY ACTIVITES



DESIRED RESULTS



## TIMELINE & MILESTONES



High-level objectives to accomplish a more inclusive and impactful NSDI

National Inclusive & Collaborative Geospatial Governance

Pilot Activity to Test & Harmonize Governance w/ Desired Results

Communication pathways that attract & maintain engagement

Major activities necessary for accomplishing identified objectives

- Major Reset
- Work Groups
- Regional
   Collaboration

- NGDA Pilot
- Regional & Tribal Impact
- P3 Activity
- Virtual/PersonMeetingCadenceChampions

Measurable and tangible results to gauge progress

Expedite NGDA
Creation &
Currency
Broader Members

Isolate business and benefit cases that secure & maintain contribution

Velocity & veracity of productive engagement

New stakeholders

Bounded timeline(s) for accomplishing major activities

June 1, 2022

- Draft Framework

June 1, 2022

- Interim Results on 1 NGDA

June 1, 2022

 Assess comms mechanisms & refine or tailor

#### Evolving a National Governance Model (Strawman)

#### **RATIONALE**

- Ensure authoritative geospatial data is available/accessible everywhere it's needed to support the highest priority activities for the public
- Build trust and relationships Reduce and share risk
- Share resources to accomplish objectives
- Shared understanding of issues
- Mechanism to recognize, incorporate, and prioritize new issues



#### National Governance Characteristics (Strawman)

- All stakeholders have equitable seat at the table for decision-making
- Procedures and institutional arrangements are minimalized
- Policy-making to align & coordinate activities related to:
  - Data development/maintenance
  - Standards development/approval/implementation
  - Data discovery
  - Authoritative data recognition
  - **Data is by default publicly available.** In some cases, exceptions can be made with justification to limit the audience.



#### National Governance Characteristics (Strawman)

- Subordinate committees of public sector and private sector
- P3s and other innovative partnerships at all levels aligned and working toward objectives established by governance body
- Independent not-for-profit provides operational platform for governance
- Sustainable funding with shared revenues / benefits to support data maintenance/aggregation
- Data governance policies/procedures established by governance body



Governance Home/Host

Method of collaboration

provide basic

template at

starting point

- refine later

Could be something

new/something not created yet

least for a

datasets tied down by rules, i.e., Census LUCA Addresses cannot be used to inform state address datasets.

authoritative

sources are

services are sourced

authoritative source

Discomfort

with idea of

Non-profit

providing

structure

Unbiased non-governmental organization.

Prefer not to

something

new (at least

not just yet)

**National** 

**Open Data** 

Portal

start

Has to be a communication plan so we're getting the right message to the right people

clear communication plan

Governance should be baked into business process and systems

OMB Office of the Chief Information Officer

Utilize existing entity for Governance "Home" Should be FGDC

# Sept 2021 GDA Workshop: Governance Breakout Group

A collaborative org such as an NGO, COGO, or professional association Central location with authority to lead at national level

> Governance includes data life-cycle from local to national level

What role does the volunteer/crowd sourced geospatial data have?

Clear communication and "marketing" to stakeholders Don't just communicate once; it has to be a continuous effort, and it has to be a two-way street

**Feedback** 

tagging data on existing data portals instead of something

new

Governance Structure

provide template to start - refine later

Need change management

for people to

adopt

anything

different

loosely coupled structure

NSDI is huge. What is it we're trying to govern? There's much more to it than data

Overarching mechanism allows for slight tweaks in governance for specific layers

Name authoritative sources Define the ecosystem broadly, yet allow for flexibility as technology change LOJIC Partnership MOA

look at the larger successful organizations (NIFC)

Must facilitate relationships at and between all levels.

outreach/education/ommunication/admin

The governance should be able to follow the lifecycle of the data

All le Govi Fede Acad NGC

All levels of
Govt (local -->
Federal) plus
Academia,
NGO and
Industry

Acidemia particu
Industry

Govern

Followi
Iife cyc
around

theme

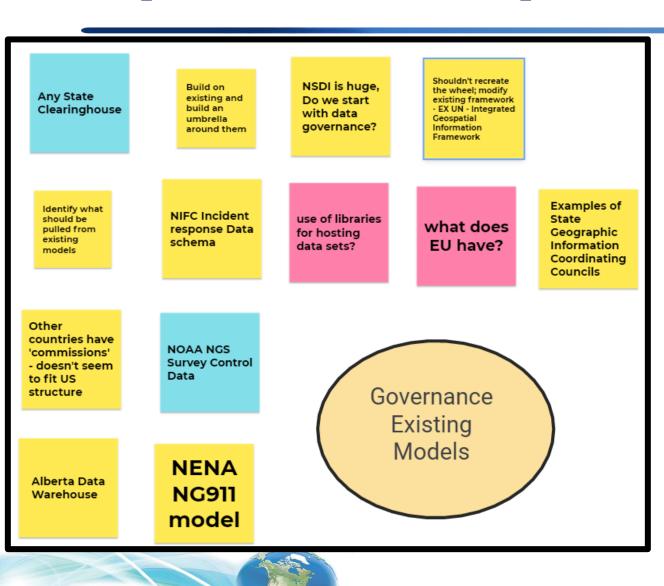
Governance following the life cycle around a particular data

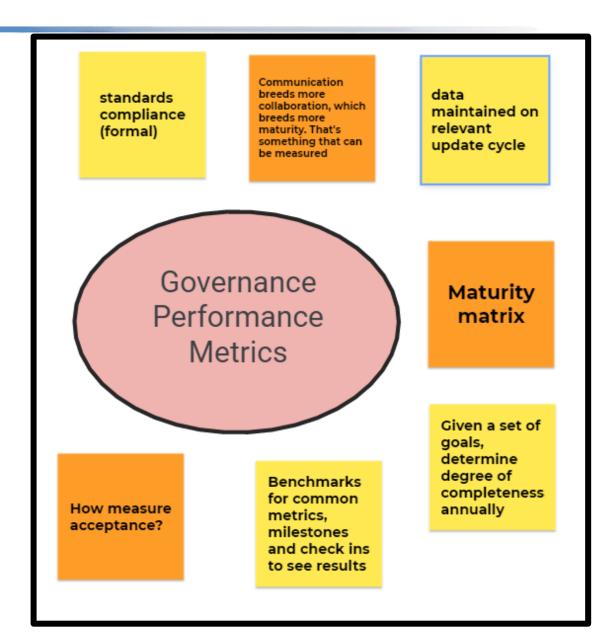
Involve all stakeholders equally

Comprised of entire stakeholder community



#### Sept 2021 GDA Workshop Governance Breakout Group Feedback





#### Sept 2021 GDA Workshop Governance Breakout Group Feedback

Use blockchain ledger concept to identify authoritative data at feature level

A mechanism to provide feedback on datasets

Metadata at the feature instance level - allows for clarity and flexibility in defining 'authoritative' source

Finding and using the 'right' authoritative source

Must have interoperability through agreed upon standards

federated services

create minimum standards

Make certain structure doesn't override existing relationship/SDI's -Integrate existing SDI at all levels

Dedicated funding for the NSDI

standards!!!

Data from authoritative sources: local --> state/tribal --> national

Integration should take into account data beyond geospatial; geospatially referenced data

Core standards allow local customization Standards data providers can actually meet

Governance Characteristics/ don't reinvent the wheel (Data Schema) look at what has worked for others that have went down the design path

Top down funding and quidance and bottom up buy-in and implementation unbiased. objective

Metadata is the backbone

Simple (core) metadata that can actually be developed/maintained

Principles

Metadata

Self serve or curated

Standard GIS data models/schemas

Simple Data Schema

Inherent risk if you lack governance

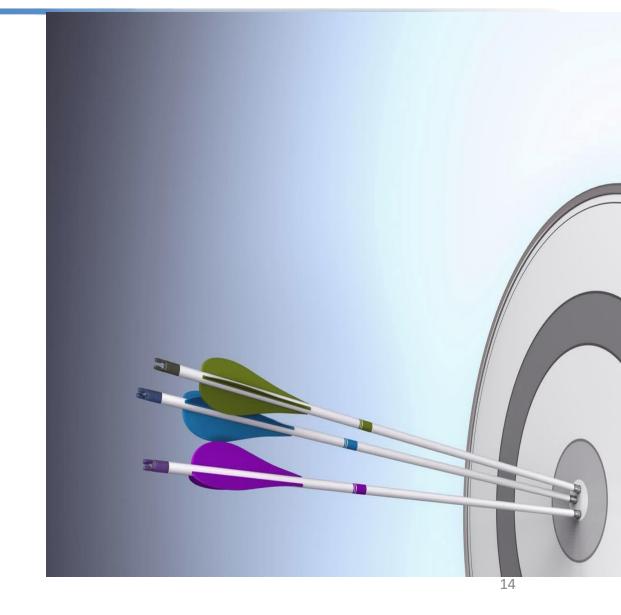


#### What is our Target? How do we get there?

# Recommendation to Test / Pilot Small g collaborative governance

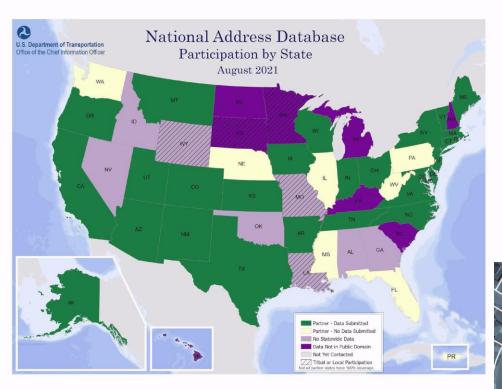
- Inclusive, equitable engagement
  - Minimal institutional arrangements & procedures
  - Hosting organization
- Focus on policy to align & coordinate
  - Requirements, Resources / Funding
  - Partnerships
  - Data and technology development / maintenance / governance
  - Standards

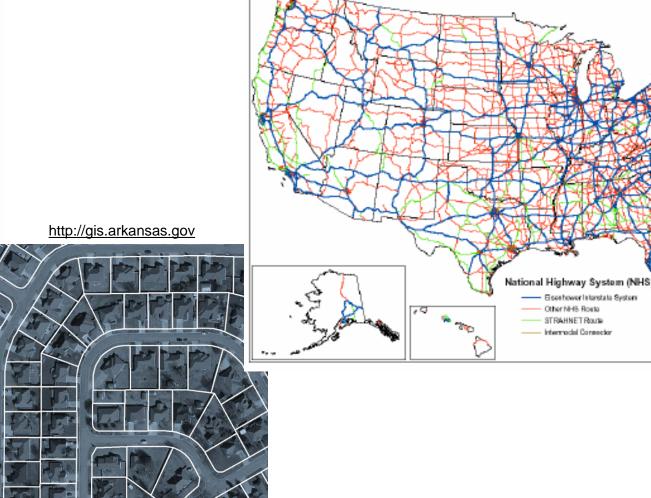
Priority focus areas, geographic location



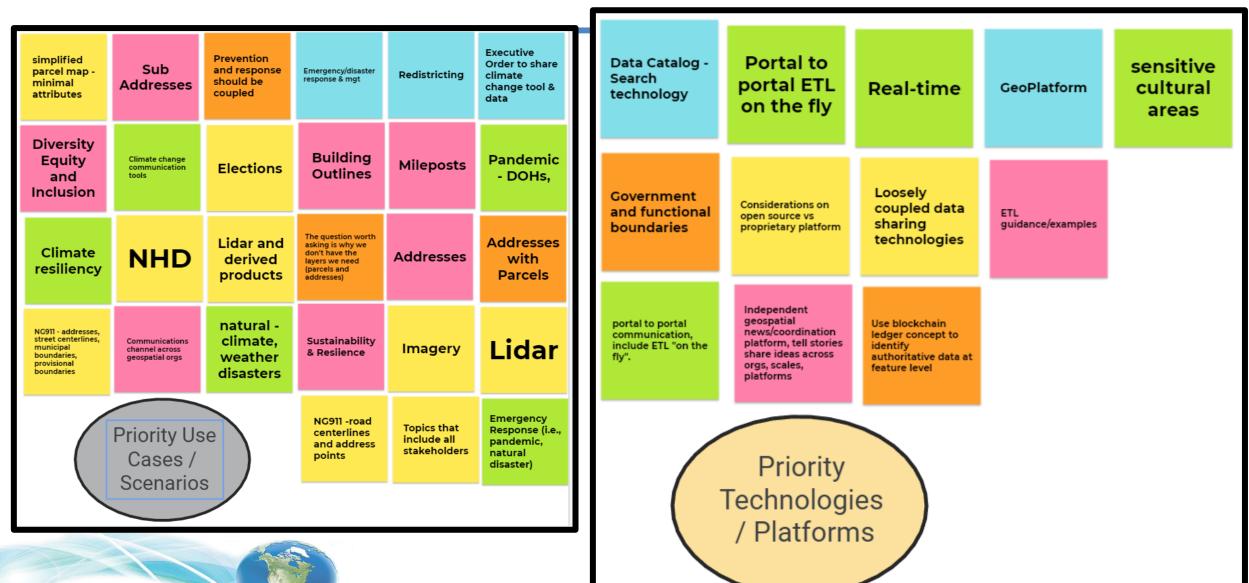


#### Potential Areas of Priority Focus









CENSUS BAS program FEMA Risk Map

NAD, for data

roll up from

local to

national

NRCS Soils modernization/harmo nization (floods, fires) dynamic/current data outreach and education pilot

Crowd-sourcing

NAIP

Program

GIS hot wash pandemic

Include data consumers in pilots - ensure business/operations are captured

Equity considerations

2022/2023 Datum Changes

partnership

Tribal engagement and

Connections with Census

NG9-1-1

OGC Pilots (all

stakeholders

at the table)

Bureau

Census

NSGIC "For the Nation" Approach Deliberately learn form orgs getting it right Common data models that provide a low barrier for participation

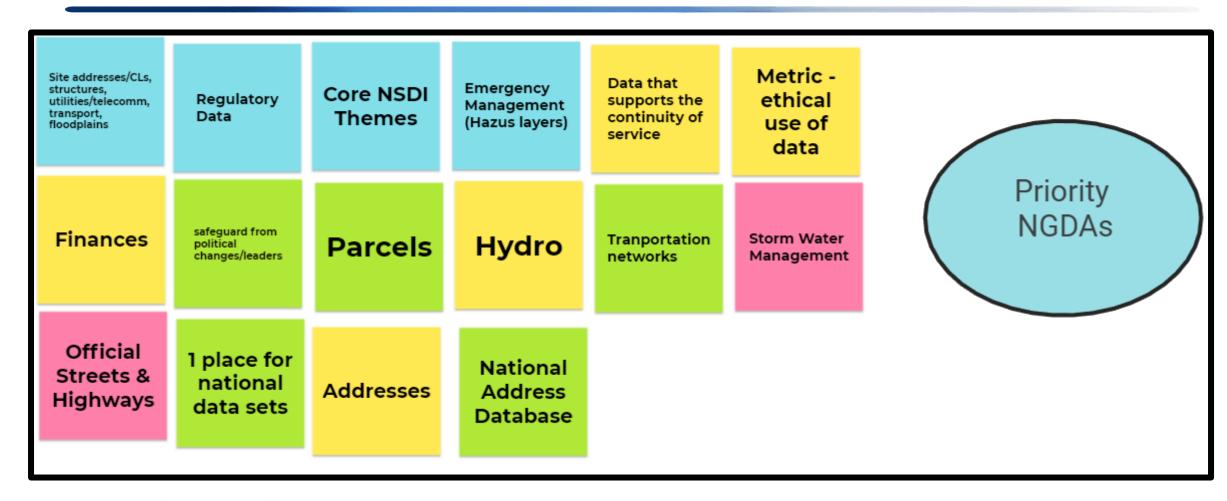
**3DEP** 

Standards are critical

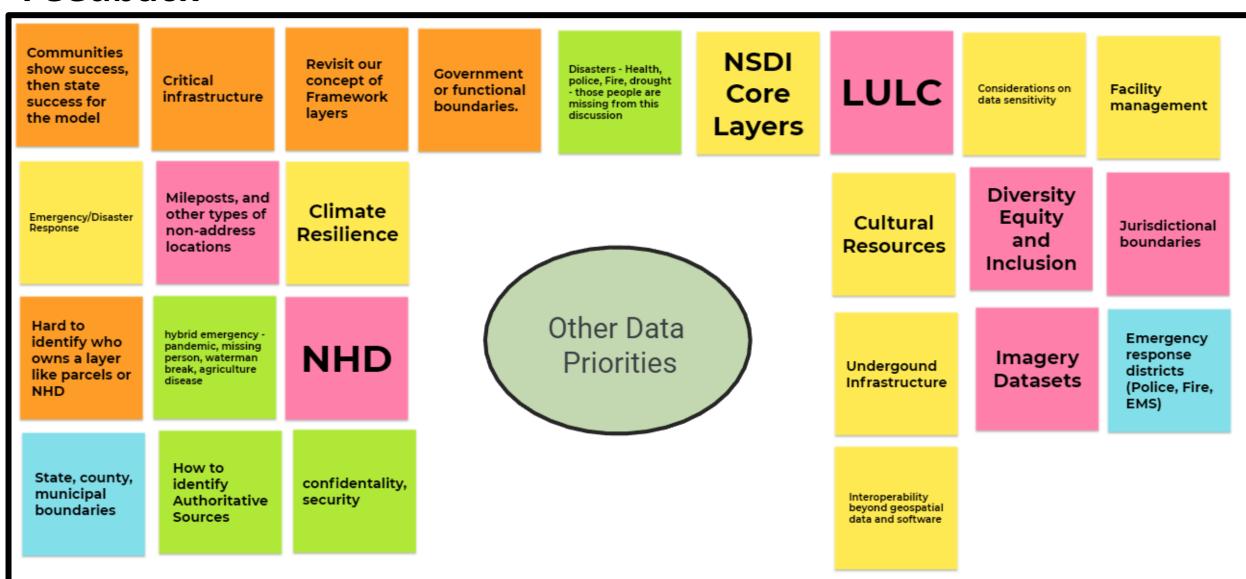
man-made emergency anthrax, hazmat, school shooting, terrorism, explosion, civil unrest, nuclear

Mechanisms to Pilot









#### Discussion: How Might We Get There From Here?

What might be a roadmap towards strategic planning and implementation of P3s and Stakeholder Engagement?

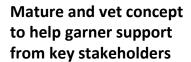




**Recommendations: NGAC** 

Concept
Step 1

Pilot Use Case
Step 2



- Plan / conduct workshops, circulate outreach materials to bring idea to life
- Engage stakeholders broadly to build support
- Inclusive of traditional and non-traditional players

## Create a pilot plan recommendation for one or two NGDAs

Develop recommended pilot scope

- Establish program value and benefits
- Determine initial interest and potential levels of resources required





Activation: FGDC & Stakeholders

Time Bounded Sprint

Step 3

Implementation
Step 4

## Execute pilot and access effectiveness & lessons learned

- Test and access
  - New governance approaches, patterns, and practices
  - New approaches for accelerating pilot NGDA completeness, standardization, currency.
- Document partnership stakeholder engagement models/approaches used.

## Broader Implementation & Use of Newly Applied Governance

- Communicate success of pilot
- Adopt/Refine governance model to be tailorable & scalable
- Develop further partnerships with other needed or previously identified stakeholders
- Firm up MOU/MOA and Sustainment



#### Discussion

#### **OBJECTIVES** Q E **KEY DESIRED TIMELINE & ACTIVITES RESULTS Milestones** High-level objectives to Major activities necessary Measurable and tangible Bounded timeline(s) for Roadmap accomplish a more for accomplishing results to gauge progress accomplishing major identified objectives inclusive and impactful activities **NSDI** June 1, 2022 Expedite NGDA Major Reset National Inclusive Creation & Work Groups OKR & Collaborative Draft Currency Regional Geospatial Framework Collaboration Broader Members Governance $\boldsymbol{\sigma}$ on June 1, 2022 Isolate business NGDA Pilot Pilot Activity to and benefit cases **Brainstorm** Regional & Test & Harmonize - Interim Results that secure & Tribal Impact Governance w/ on 1 NGDA maintain P3 Activity Desired Results contribution June 1, 2022 Virtual/Person Velocity & veracity Communication Meeting of productive pathways that Assess comms Cadence engagement attract & maintain mechanisms & Champions engagement refine or tailor New stakeholders



#### Potential Subcommittee Next Steps

- Engage the Stakeholder and P3 subcommittees to review, assess and validate core objectives based on GDA workshop feedback (Oct 2021)
- Schedule series of Summits with community
  - To share and further shape piloting governance model (Nov 2021)
  - To identify potential candidate NSDI topics and geographic locations (Jan 2022)
  - To develop National Communications Recommendation (Feb 2022)
- Governance Piloting Roadmap Recommendation to NGAC (March 2022)
- Communications Recommendation to NGAC (June 2022)

